

# Annex B - Bird Species' status and trends report (Article 12)

## 1. Species information

|   |                |
|---|----------------|
| 1.1 Member State                        | Hungary        |
| 1.2 Species code                        | A404           |
| 1.3 EURING code                         | 2950           |
| 1.4 Species scientific name             | Aquila heliaca |
| 1.5 Subspecific population              |                |
| 1.6 Alternative species scientific name |                |
| 1.7 Common name                         | parlagi sas    |
| 1.8 Season                              | Breeding (B)   |

## 2. Population size

|  |  |
|--|--|
| 2.1 Year or period                                       | 2013-2017  |
| 2.2 Population size                                      | a) Unit number of pairs (p)<br>b) Minimum 155<br>c) Maximum 222<br>d) Best single value  |
| 2.3 Type of estimate                                     | Best estimate  |
| 2.4 Population size Method used                          | Complete survey or a statistically robust estimate   |
| 2.5 Sources  | National park directorates' databases (Annual survey of colonially breeding and strictly protected bird species)<br><a href="http://map.mme.hu/maps/map2">http://map.mme.hu/maps/map2</a><br>Horváth, M., Bagyura, J., Deák, G., Fatér, I., Firmánszky, G., Juhász, T., Klébert, A., Pongácz, Á., Prommer, M., Szelényi, B. & Váczi, M. (2015): A Parlagisas-védelmi és Mérgezés-megelőzési Munkacsoportok 2013. évi beszámolója / Annual report of the Hungarian Imperial Eagle and Anti-poisoning Working Groups - 2013 (In Hungarian with English summary). Heliaca 11: 6-9.<br>Horváth, M., Fatér, I., Juhász, T., Deák, G., Bereczky, A. & Pásztor-Kovács, Sz. (2018): A Parlagisas-védelmi Munkacsoport 2016. évi beszámolója / The 2016 annual report of the Hungarian Eastern Imperial Eagle Working Group (In Hungarian with English summary). Heliaca 14: 35-38. |
| 2.6 Change and reason for change (since previous report) | Genuine change<br>The change is mainly due to: Genuine change  |

|                            |  |
|----------------------------|--|
| 2.7 Additional information | Horváth et al. (2013) reported 155-165 pairs for 2013, and the minimum value was used as minimum population size here. After a continuous increase, the last available data comes from the database of national park directorates, which is 222 pairs in 2017. |
|----------------------------|--|

## 3. Population trend

### 3.1 Short-term trend (last 12 years)

|                                  |                |
|----------------------------------|----------------|
| 3.1.1 Short-term trend Period    | 2007-2017      |
| 3.1.2 Short-term trend Direction | Increasing (+) |

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### 3.1.3 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Best single value 110

### 3.1.4 Short-term trend Method used

Complete survey or a statistically robust estimate

### 3.1.5 Sources

Horváth, M., Fatér, I., Firmánszky, G., Kleszó, A., Kovács, A., Szitta, T., Tóth, I. & Zalai, T. (2009): Parlagisas-védelmi Munkacsoport 2007. évi beszámolója / Annual Report of the Imperial Eagle Working Group - 2007 (In Hungarian with English summary). Heliaca 5: 5-12.

Horváth, M., Bagyura, J., Fatér, I., Firmánszky, G., Kleszó, A., Kovács, A., Szitta, T., Tóth, I., Zalai, T. & Váczi, M. (2010): Parlagisas-védelmi Munkacsoport 2008. évi beszámolója / Annual Report of the Imperial Eagle Working Group – 2008. (In Hungarian with English summary.) Heliaca 6: 5-12.

Horváth, M., Bagyura, J., Fatér, I., Firmánszky, G., Kleszó, A., Kovács, A., Szitta, T., Tóth, I., Zalai, T. & Váczi, M. (2010): Parlagisas-védelmi Munkacsoport 2009. évi beszámolója / Annual Report of the Imperial Eagle Working Group – 2009. (In Hungarian with English summary.) Heliaca 7: 6-13.

National park directorates' databases (Annual survey of colonially breeding and strictly protected bird species)

<http://map.mme.hu/maps/map2>

## 3.2 Long-term trend (since c. 1980)

### 3.2.1 Long-term trend Period

1980-2018

### 3.2.2 Long-term trend Direction

Increasing (+)

### 3.2.3 Long-term trend Magnitude

- a) Minimum 788
- b) Maximum 903
- c) Best single value

### 3.2.4 Long-term Trend Method used

Complete survey or a statistically robust estimate

### 3.2.5 Sources

Haraszthy L. (szerk.) (2014): Natura 2000 fajok és élőhelyek Magyarországon. Pro Vértes Közalapítvány, Csákvár. p. 562-565.

National park directorates' databases (Annual survey of colonially breeding and strictly protected bird species)

<http://map.mme.hu/maps/map2>

## 3.3 Additional information

The mean of the population figures estimated by the Hungarian Imperial Eagle Working Group and published in Heliaca for the first three years of the trend (2007: 85-90 pairs, 2008: 90-100 pairs, 2009: 105-115 pairs) were compared with the mean of the population figures as reported by the national park directorates for the last three years (2015: 187 pairs, 2016: 206 pairs, 2017: 222 pairs) to get the best single value for the short-term trend.

The long-term trend was calculated from the population estimate given by Haraszthy (2014) for the late 1970s and early 1980s: 15-25 pairs. The minimum value was compared with the minimum value in the present report, and the maximum values were also similarly compared.

## 4. Breeding distribution map and size

### 4.1 Sensitive species

No

### 4.2 Year or period

2014-2018

### 4.3 Breeding distribution map

Yes

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|  |   |
|--|---|
| 4.4 Breeding distribution surface area | 15727   |
| 4.5 Breeding distribution Method used  | Complete survey or a statistically robust estimate  |
| 4.6 Additional maps                    | No  |
| 4.7 Sources                            | National park directorates' databases (Annual survey of colonially breeding and strictly protected bird species)<br><a href="http://map.mme.hu/maps/map2">http://map.mme.hu/maps/map2</a> |
| 4.8 Additional information             |   |

### 5. Breeding range trend

#### 5.1 Short-term trend (last 12 years)

|                                    |  |
|------------------------------------|--|
| 5.1.1 Short-term trend Period      | 2007-2018  |
| 5.1.2 Short-term trend Direction   | Increasing (+)   |
| 5.1.3 Short-term trend Magnitude   | a) Minimum<br>b) Maximum<br>c) Best single value 165   |
| 5.1.4 Short-term trend Method used | Complete survey or a statistically robust estimate   |
| 5.1.5 Sources                      | Horváth, M., Bagyura, J., Fatér, I., Firmánszky, G., Kleszó, A., Kovács, A., Szitta, T., Tóth, I., Zalai, T. & Vácz, M. (2010): Parlagisas-védelmi Munkacsoport 2008. évi beszámolója / Annual Report of the Imperial Eagle Working Group – 2008. (In Hungarian with English summary.) Heliaca 6: 5-12.<br>Horváth, M., Fatér, I., Juhász, T., Deák, G., Bereczky, A. & Pásztor-Kovács, Sz. (2018): A Parlagisas-védelmi Munkacsoport 2016. évi beszámolója / The 2016 annual report of the Hungarian Eastern Imperial Eagle Working Group (In Hungarian with English summary). Heliaca 14: 35-38. |

#### 5.2 Long-term trend (since c. 1980)

|                                   |   |
|-----------------------------------|---|
| 5.2.1 Long-term trend Period      | 1980-2018   |
| 5.2.2 Long-term trend Direction   | Increasing (+)  |
| 5.2.3 Long-term trend Magnitude   | a) Minimum 529<br>b) Maximum 948<br>c) Best single value 948  |
| 5.2.4 Long-term trend Method used | Complete survey or a statistically robust estimate  |
| 5.2.5 Sources                     | National park directorates' databases (Annual survey of colonially breeding and strictly protected bird species)<br><a href="http://map.mme.hu/maps/map2">http://map.mme.hu/maps/map2</a> |

5.3 Additional information

The best single value for the short-term trend was calculated from data received from BirdLife Hungary (MME, Horváth Márton) for the years 2007 and 2018. The minimum and maximum values for the long-term trend were based on the assumption that the 15-25 pairs in the late 1970s and early 1980s were distributed in 15-25 grids, i.e. the distribution was 1500-2500 km<sup>2</sup>. These were compared with the 15727 km<sup>2</sup> of the present map.

### 6. Progress in work related to international Species Action Plans (SAPs), Management Plans (MPs) and Brief Management Statements (BMSs)

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|  |   |
|--|---|
| 6.0 Is/Will the information related to international SAPs, MPs and BMSs (section 6) be provided for the other season for this species? | No  |
| 6.1 Type of international plan   | Species Action Plan (SAP)   |
| 6.2 Has a national plan linked to the international SAP/MP/BMS been adopted?   | No  |
| 6.3 If 'NO', describe any measures and initiatives taken related to the international SAP/MP/BMS                                       | Restriction of forestry activities around nestsites. Regular population censuses, tracking of breeding success. Re-enforcement of nests, erection of artificial nest Habitat improvement by supporting grassland management, including extensive grazing. Measures to increase the population of prey species (in particular small mammals, such as souslik). Measures against illegal poisoning (two LIFE project HELICON and presently PannonEagle). Measures against electrocution (retrofitting of powerlines). Satellite-tracking. Rescuing and repatriation of injured birds and nestlings fallen out of the nest. Guarding of threatened nests, winter feeding.  |
| 6.4 Assessment of the effectiveness of SAPs for globally threatened species (Art. 12, Species Action Plans)                            | moving towards the plan's aim/objective(s) (towards)  |
| 6.5 Assessment of the effectiveness of MPs for huntable species in non-Secure status (Articles 3 and 7, Management Plans)              | ( )   |
| 6.6 Sources of further Information   | Haraszthy L. (szerk.) (2014): Natura 2000 fajok és élőhelyek Magyarországon. Pi Vértés Közalapítvány, Csákvár. p. 562-565.<br>Horváth, M., Deák, G., Fatér, I., Juhász, T., Bánfi, P., Horváth, Á., Kiss Á., Kovács, G., Pongrácz, Á. & Sós, E. (2018): A HELICON LIFE projekt eredményei a mérgezésmegelőzés és a parlagisas-védelem területén 2012 és 2016 között / The results of the HELICON LIFE project in the prevention of poisoning and in the conservation of Eastern Imperial Eagles between 2012 and 2016 (In Hungarian with English summary). Heliaca 14: 100-105.<br><a href="http://www.imperialeagle.hu/">http://www.imperialeagle.hu/</a><br><a href="http://www.imperialeagle.eu/">http://www.imperialeagle.eu/</a> |

## 7. Main pressures and threats

| a) Pressure   | b) Ranking | c) location                          |
|---|------------|--------------------------------------|
| Conversion from one type of agricultural land use to another (excluding drainage and burning) (A02) | H          | both inside and outside EU (inOutEU) |
| Removal of old trees (excluding dead or dying trees) (B08)  | M          | both inside and outside EU (inOutEU) |
| Illegal logging (B10)   | M          | both inside and outside EU (inOutEU) |
| Transmission of electricity and communications (cables) (D06)                                       | H          | both inside and outside EU (inOutEU) |
| Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)          | H          | both inside and outside EU (inOutEU) |

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|---|---|--------------------------------------|
| Illegal shooting/killing (G10)                        | H | both inside and outside EU (inOutEU) |
| Poisoning of animals (excluding lead poisoning) (G13) | H | both inside and outside EU (inOutEU) |
| Storm, cyclone (M07)                                  | M | both inside and outside EU (inOutEU) |

| a) Threat   | d) Ranking | e) location                          |
|---|------------|--------------------------------------|
| Conversion from one type of agricultural land use to another (excluding drainage and burning) (A02) | H          | both inside and outside EU (inOutEU) |
| Removal of old trees (excluding dead or dying trees) (B08)  | M          | both inside and outside EU (inOutEU) |
| Illegal logging (B10)   | M          | both inside and outside EU (inOutEU) |
| Transmission of electricity and communications (cables) (D06)                                       | H          | both inside and outside EU (inOutEU) |
| Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)          | H          | both inside and outside EU (inOutEU) |
| Illegal shooting/killing (G10)  | H          | both inside and outside EU (inOutEU) |
| Poisoning of animals (excluding lead poisoning) (G13)   | H          | both inside and outside EU (inOutEU) |
| Storm, cyclone (M07)  | M          | both inside and outside EU (inOutEU) |

### 7.2 Sources of information

Haraszthy L. (szerk.) (2014): Natura 2000 fajok és élőhelyek Magyarországon. Pro Vértés Közalapítvány, Csákvár. p. 562-565.

### 7.3 Additional information

## 8. Main Conservation Measures

### 8.1 Status of measures

Measures identified and taken

### 8.2 Main purpose of the measures taken

Increase the population size and/or improve population dynamics (improve reproduction success, reduce mortality, improve age/sex structure)

### 8.3 Location of the measures

Both inside and outside Natura 2000

### 8.4 Response to the measures

Short-term results (within the current reporting period, 2013-2018)

### 8.5 List of main conservation measures

CB05 - Adapt/change forest management and exploitation practices

CB06 - Stop forest management and exploitation practices

CC06 - Reduce impact of service corridors and networks

CG04 - Control/eradication of illegal killing, fishing and harvesting

CS03 - Improvement of habitat of species from the directives

CS04 - Manage other native species

CX02 - Support conservation measures in countries outside the EU

### 8.6 Additional information

Haraszthy L. (szerk.) (2014): Natura 2000 fajok és élőhelyek Magyarországon. Pro Vértés Közalapítvány, Csákvár. p. 562-565.

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### 9. Natura 2000 (SPAs) coverage

#### 9.1 Population size inside the Natura 2000 (SPA) network

a) Unit number of pairs (p)

b) Minimum

c) Maximum

d) Best single value 96

#### 9.2 Type of estimate

Best estimate

#### 9.3 Population size inside the network Method used

Complete survey or a statistically robust estimate

#### 9.4 Short-term trend of population size within the network Direction

Increasing (+)

#### 9.5 Short-term trend of population size within the network Method used

Complete survey or a statistically robust estimate

#### 9.6 Additional information

# A madárvédelmi irányelv 12. cikke alapján készített országjelentés 2019.

**Parlagi sas (*Aquila heliaca*)**  
jelölő faj (I. melléklet)

